201.5 - Electrolytic Conductivity (liquid form)

These SRMs are for calibrating and standardizing conductivity cells and meters used in water purity determinations and in clinical applications. SRM 3190 is an aqueous solution of hydrochloric acid; SRMs 3191 through 3193 are solutions of high purity potassium chloride in deionized water in equilibrium with atmospheric carbon dioxide. SRMs 3198 and 3199 are solutions of potassium chloride in a mixture of n-propanol and deionized water.

Conductivity SRMs 3194 (10000 µS/cm), 3195 (100000 µS/cm), and 3196 (20000 µS/cm) have been discontinued. Users can prepare their own molality-based NIST traceable primary reference materials at conductivity levels of 1409.33 µS/cm, 108621 µS/cm, and 12825.7 µS/cm, respectively by starting with any issuance of SRM 999 Potassium Chloride. See this: Reference Link for the preparation details.

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PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	Description	Unit of Issue	Nominal Conductivity (µS/cm)
3190	Aqueous Electrolytic Conductivity (25 µS/cm)	500 mL	25
3191	Aqueous Electrolytic Conductivity	500 mL	100
3192	Aqueous Electrolytic Conductivity (500 µS/cm)	8x50 mL	500
3193	Aqueous Electrolytic Conductivity (1000 µS/cm)	8x50 mL	1000
3198	Aqueous Electrolytic Conductivity (5 µS/cm)	500 mL	5
3199	Aqueous Electrolytic Conductivity (15 µS/cm)	500 mL	15